

TM

Prop Cockpit Trainer

USER MANUAL

(MEP2.520-26APR2010)

**Please read this manual before operating your
units and keep it for future reference**



All stated here is subject to change without advanced notice for improvement.

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VRinsight Prop Cockpit Trainer



The **Prop Cockpit Trainer** of **VRinsight** is a realistic prop type cockpit training device with full control and screen system for instrument flight. Modeled single engine aviation, aluminum yoke, Engine start Magnetos (5-positions), Landing Gear, 3 Axis lever, Flap switch, Radio panel & GPS are closely reproduced to experience real instrument flight synchronized with Microsoft's Flight Simulator.

The **Prop Cockpit Trainer** is the one of the most affordable training device for student pilots, on-line pilots to fly at anytime and anywhere.

- **SerialFP2** software supports all functions to **Prop Cockpit Trainer**.
- One free USB port & one free DVI/VGA video port required.
- Microsoft Flight Simulator 2004 & Microsoft Flight Simulator X compatible.

BEFORE USE : Thanks for purchasing VRi's ***Prop Cockpit Trainer***.

Before operating your units, please read through this manual and keep it for future reference. For any further question, visit www.wilcopub.com or contact us below:

Fax : +32-2-33107 51

E-mail (Support team) : info@wilcopub.com

NOTE : This manual could be redistributed unless you modify the contents.
This manual has been written out on a ***Prop Cockpit Trainer*** basis.

All software (& software versions) stated here (MEP2.520-26APR2010) is subject
To change without advanced notice for improvement.

If you want to download the latest driver version for panel & application
programs, visit www.vrinsight.com

Prop Cockpit Trainer (Prop Cockpit Trainer with three monitors)



Features

- Same functionality and extensibility with real Propeller type aircraft cockpit.
- Gauges on the panel;
 - SPEED indicator
 - ATTITUDE indicator with position bar setting rotary knob
 - ALTIMETER with BARO setting rotary knob
 - TURN COORDINATOR
 - HEADING indicator with heading bug and gyro rotary knob
 - VERTICAL SPEED indicator
 - VOR1 indicator with OBS rotary knob
 - VOR2 indicator with OBS rotary knob
 - ADF indicator with HDG rotary knob
 - FUEL gauge
 - Manifold pressure gauge
 - TACHOMETER
 - CLOCK
 - GPS with push buttons and rotary knob (GPS500 model)
- Radio panel
 - Red color 7-segments and tact switches
 - Luminous tact switches
 - Integrated unit with all radio stack units ; COM 1/2, NAV 1/2, ADF, DME, TRANSPONDER, ANTO-PILOT unit
- Solid cast aluminum powder coated yoke
- Switch panel
 - Engine start magnetos switch : 5 positions
 - Battery switches
 - Avionics master switch
 - Fuel boost pump switches
 - Light switches : BCN, LAND, TAXI, NAV, STROBE
 - Pitot heat switch
 - Pitch / Trim wheel with status indicator FNDs.
 - 3 Axis lever : Throttle, Fuel mixture, Propeller pitch
- Flap lever
- Fuel tank selector
- Landing gear switch with position indicator lights
- Full metal & Aluminum cases

-
- Metal feet included
 - One year warranty

Technical specifications

- USB interface type to computer
- External power requirement : 110V / 220V free voltage
Outlet for TFT LCD monitor is European standard.
- Video port requirement : One DVI or VGA video port
- 34kg (without feet) / 36 kg (with feet)
- L : 73cm W : 75cm H : 46cm (without feet) / 103cm (with feet)

Compatibility software

- Flight Simulator 2004 / FSX by Microsoft

Operating software

- SerialFP2

SerialFP2 Installation

In the ***Prop Cockpit Trainer***, one “Install DVD” is included. When you insert it in DVD driver of your computer, “[VRinsight HTML](#)” document will be shown. Then click “SerialFP2” (operating software) and install it at a proper folder.

“SerialFP2” is the main operating software of VRinsight used for all VRinsight flight panels.

SerialFP2 software supports all functions of ***Prop Cockpit Trainer*** and completely interfaced with MSFS9 and MSFSX enables full simulation with simple connection your computer through USB.

Be sure that when installing SerialFP2, “Install USB-Serial Driver” must be checked.

After installation, you can find “SeiralFP2” in “All programs” of “Start menu”.

USB Connection

The connection between ***Prop Cockpit Trainer*** and your computer is made using a USB cable that plugs into one USB port on your computer. **If you want to use a USB hub, be sure that the USB hub is USB 2.0 compliant. Otherwise it may cause a malfunction.**

When you connect ***Prop Cockpit Trainer*** to your computer at first, your computer will detect it and will describe the process step by step.

Power Connection

Power supplying of ***Prop Cockpit Trainer*** is done by 110V / 220V free power cable.

Video Connection

The connection between ***Prop Cockpit Trainer*** and your computer is made using DVI or VGA cable.

Run “SerialFP2”

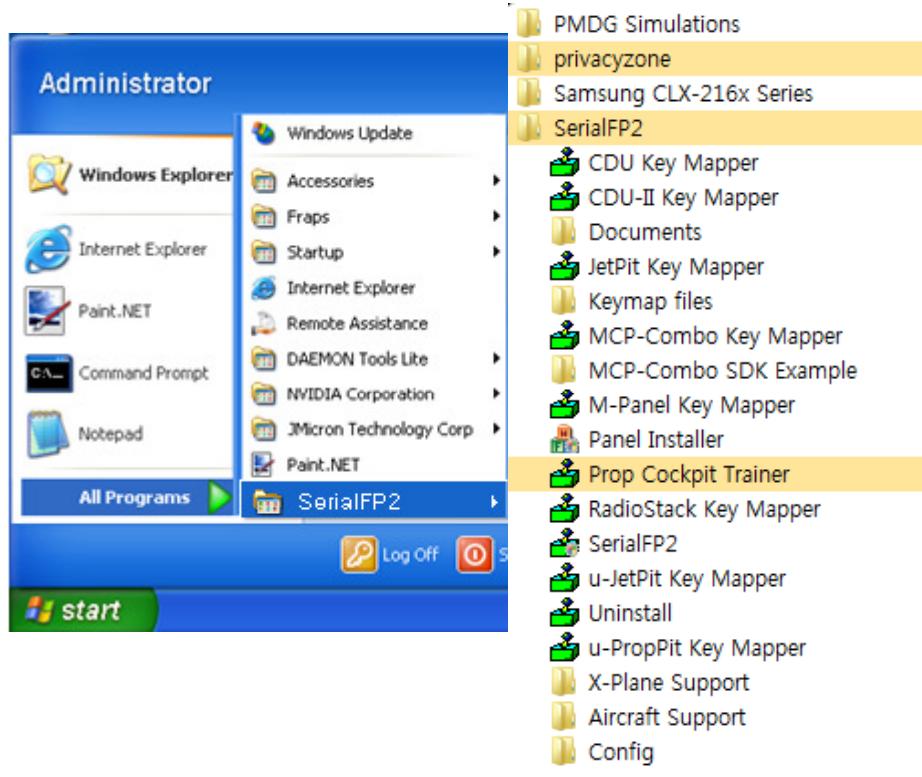
When you confirm all setup processes done; “SerialFP2” installation, “USB connection”, “Video Connection” and “Power connection”, you are ready to operate ***Prop Cockpit Trainer***.

Download & install “FSUIPC”

Refer to “Download & install FSUIPC” at “Download” part of www.vrinsight.com

FS 9 requires FSUIPC v3.80 or later. FSX requires FSUIPC v 4.26 or later

Double click shortcut of “**Prop Cockpit Trainer**” or find it in “All programs” of “Start menu. If everything is done properly, below window will be shown.



Controls & Displays for each part



Switch panel



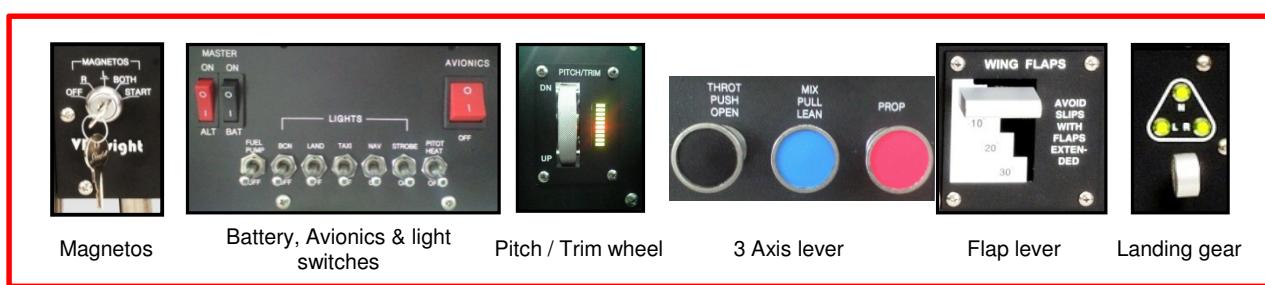
Cockpit panel with GPS



Radio panel



Yoke



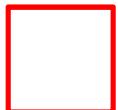
Cockpit panel : Air speed indicator, Turn coordinator, RPM indicator, Clock, Fuel flow indicator, VOR1, VOR2, HDG, ALT, Altitude indicator and Heading indicator



Radio panel : COM 1/2, NAV 1/2, ADF, DME, Transponder, Auto-pilot unit

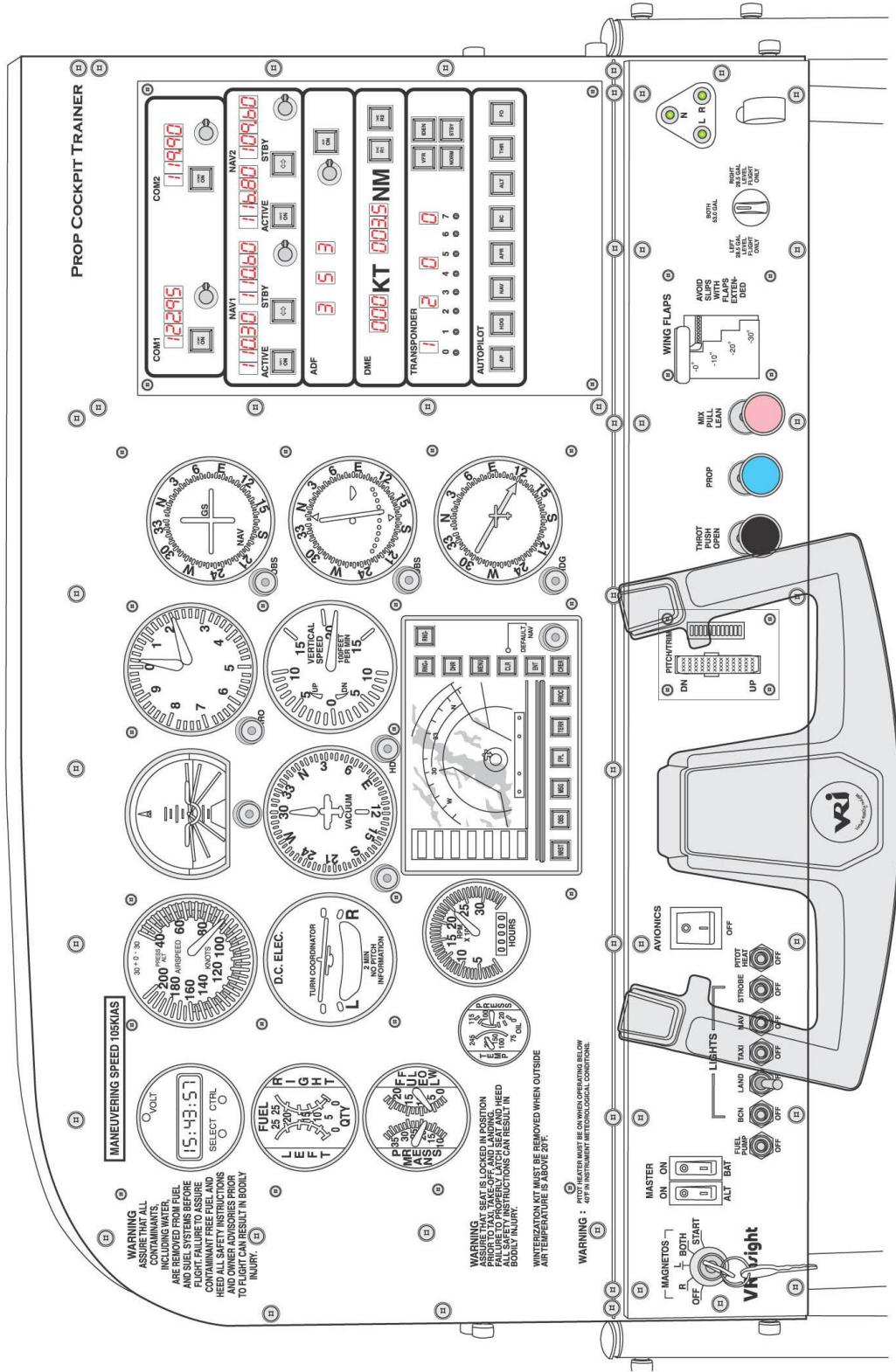


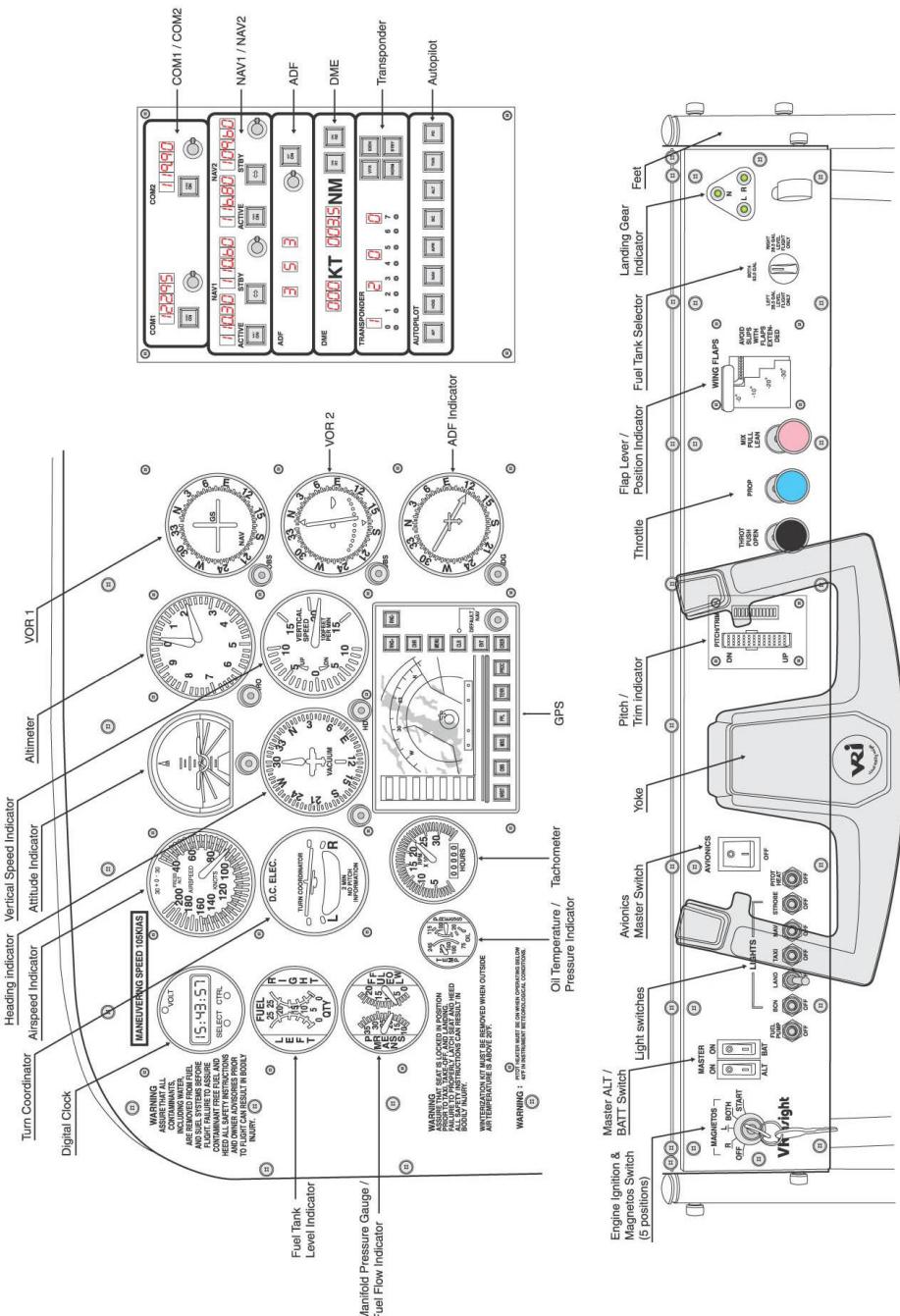
Yoke : Solid cast aluminum powder coated yoke



Switch panel : Magnetos, Battery Avionics & light switches, Pitch / Trim wheel, 3 Axis lever, Flap lever, Landing gear

PROP COCKPIT TRAINER



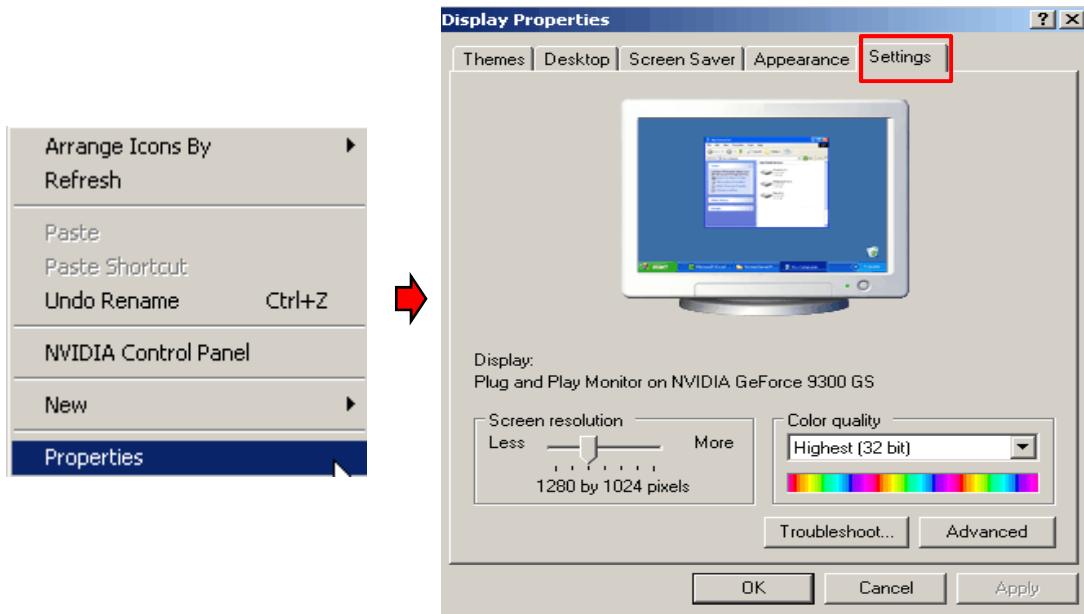


Cockpit part with LCD gauges
Radio part with 7 Segments FNDs and luminous track switches
Solid cast aluminum powder coated yoke
Full metal & Aluminum cases
Powder coated finish
Metal feet included
FS 9 and FSX compatible
One year warranty
34kg (without feet) / 36 kg (with feet)
L : 73cm W : 75cm H : 46cm (without feet) / 103cm (with feet)

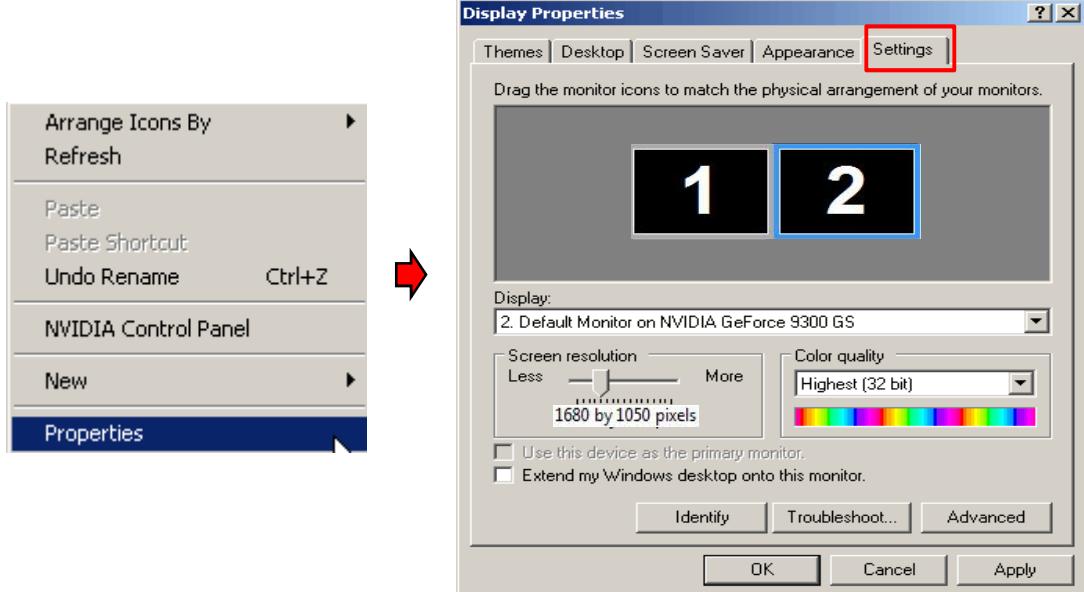
PROP COCKPIT TRAINER FEATURE
vri www.vrinsight.com Tel : +82-31-284-7090-91 E-mail : tech@vrinsight.com Fax : +82-31-284-7092 Web site : www.vrinsight.com

Monitor setting

1. Check the current display properties in order that another sub monitor is connected or not. (See "Settings")

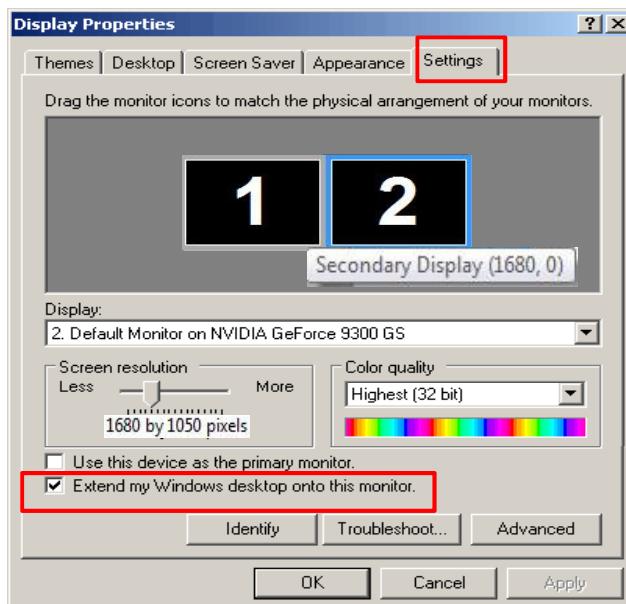


2. Connect video cable of **Prop Cockpit Trainer** to your computer.
3. Connect AC/DC adaptor to your **Prop Cockpit Trainer**.
4. Check the display property in order that **Prop Cockpit Trainer** monitor is detected or not.



- * If the **Prop Cockpit Trainer** monitor (=Monitor 2) isn't detected, check the connection of video cable & AC/DC adaptor.
- * If your OS is VISTA, please restart your computer.

5. When the **Prop Cockpit Trainer** monitor is recognized, click monitor 2 (= **Prop Cockpit Trainer** monitor).
6. Adjust the resolution for **Prop Cockpit Trainer** monitor.
(Recommended resolution is **1680 * 1050**).
7. Check the position of the monitor 2.
8. Check "Extend my Windows desktop onto this monitor".

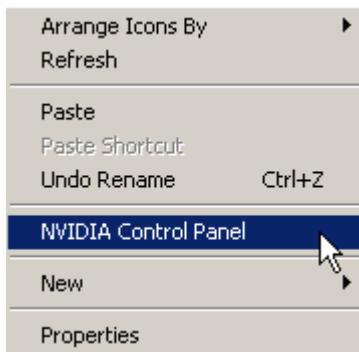


- * If **Prop Cockpit Trainer** monitor doesn't illuminate, restart your computer.
- 9. Click "Apply" and click "OK"
- 10. If everything is done properly, **Prop Cockpit Trainer** will be power on.
* If **Prop Cockpit Trainer** doesn't power on, restart your computer. And press "Power reset" button back on the **Prop Cockpit Trainer**.

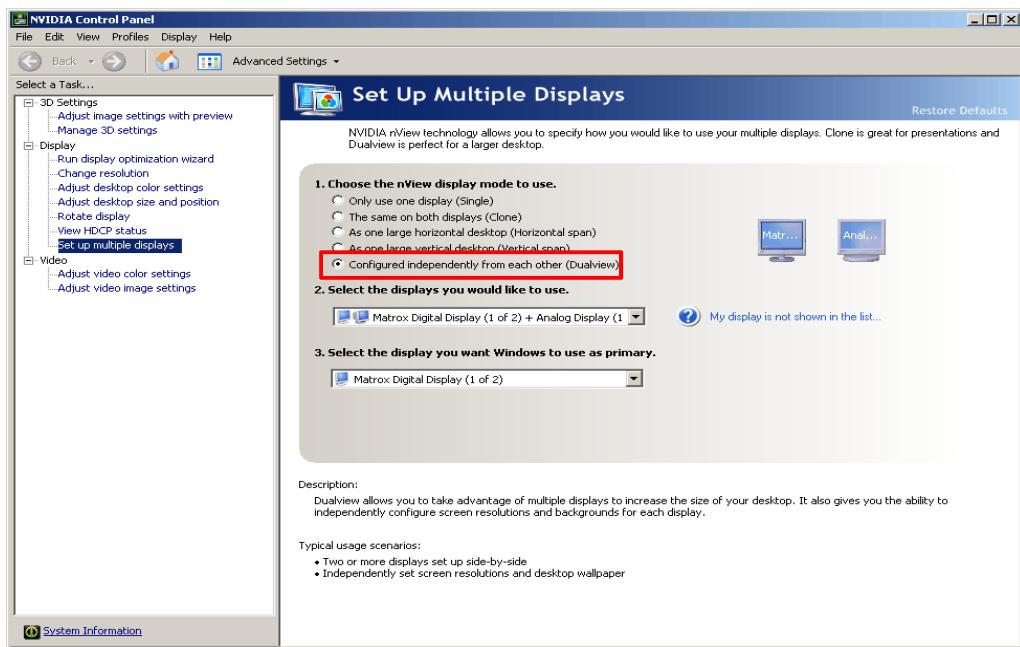
11. Multiple display

11-A. NVIDIA

11-A-1. Launch “NVIDIA Control Panel”.



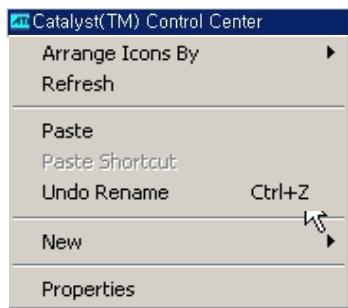
11-A-2. Go to “Set up multiple displays and check “Configured independently from each other (Dualview). Then the monitor of **Prop Cockpit Trainer** will independently display your “Desktop” view.



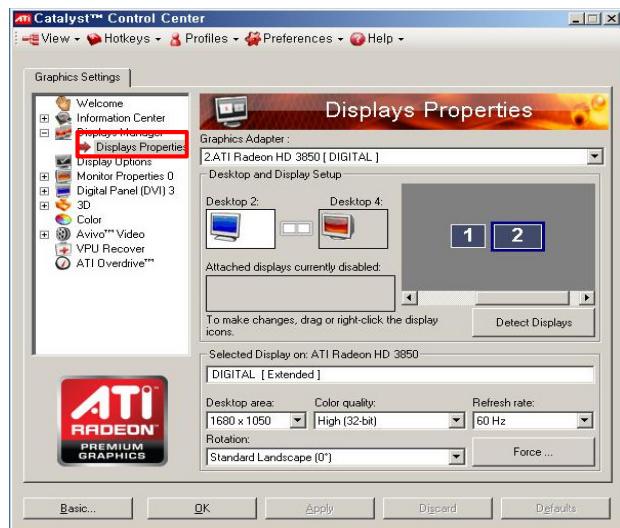
11-B. ATI

10-B-1. Launch “Catalyst(TM) Control Center”.

The monitor of **Prop Cockpit Trainer** will automatically display your “Desktop” view.



11-B-2. Go to “Displays Properties” and select monitor 2.

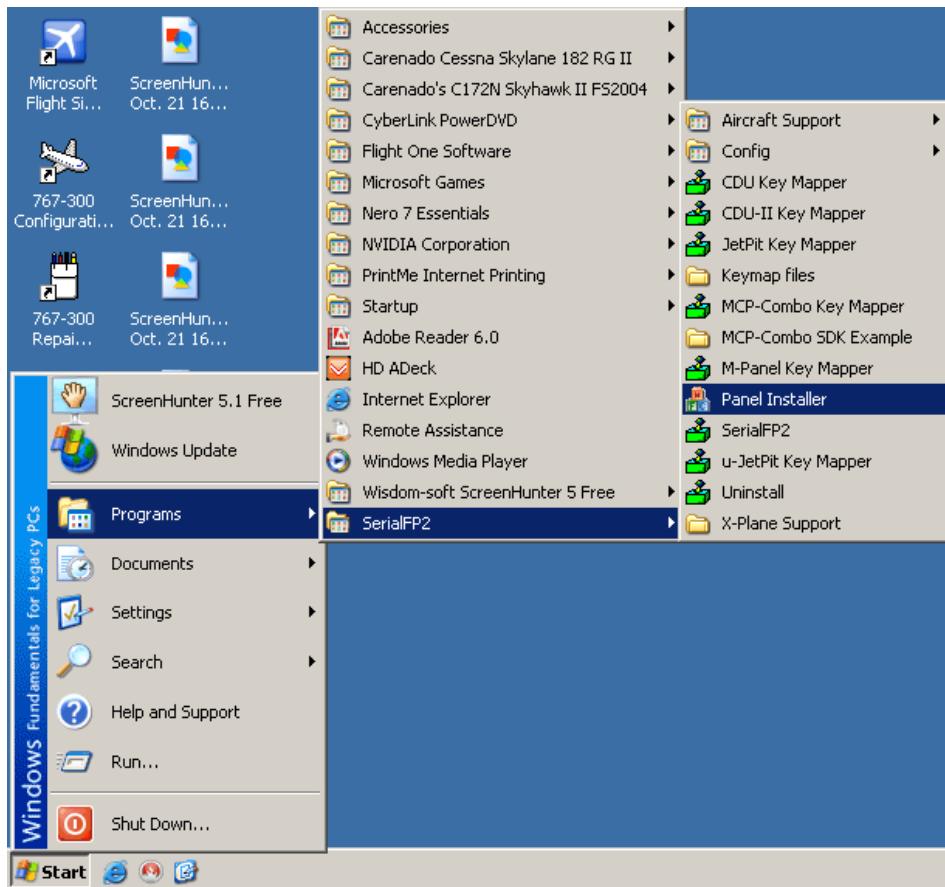


Panel installer launch

: Panel installer will copy & paste all necessary panel data to work automatically. **Be sure “Panel Installer” should run before running SerialFP2.**

* Once the panel is installed, aircraft configuration is kept.

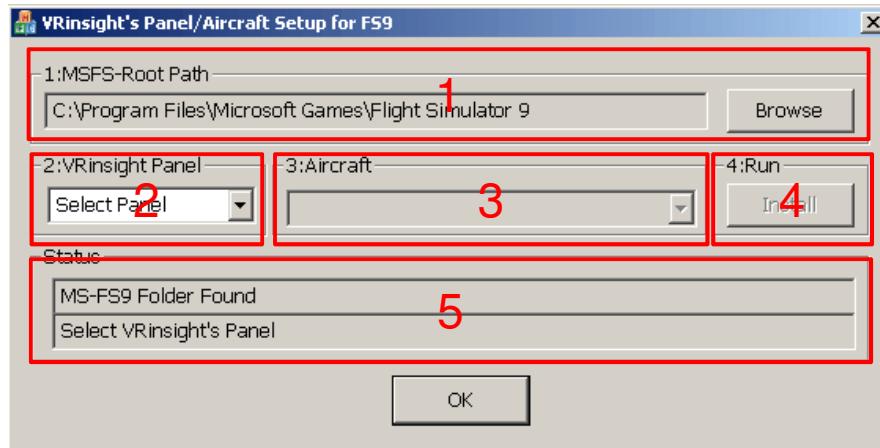
After “SerialFP2” installation, you can find “Panel Installer”.



How to use “Panel Installer”.

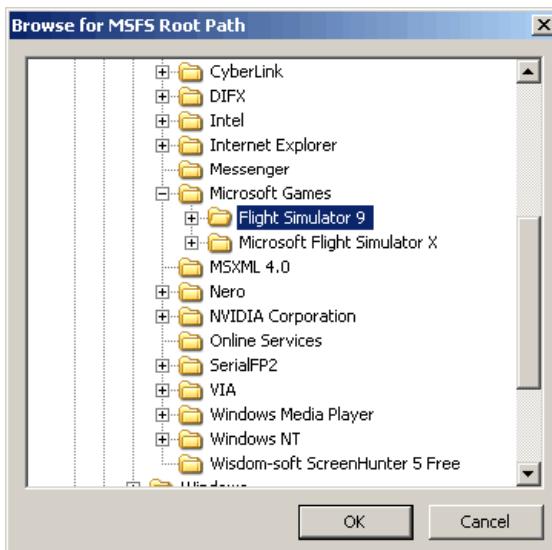
1. Run “Panel Installer” first



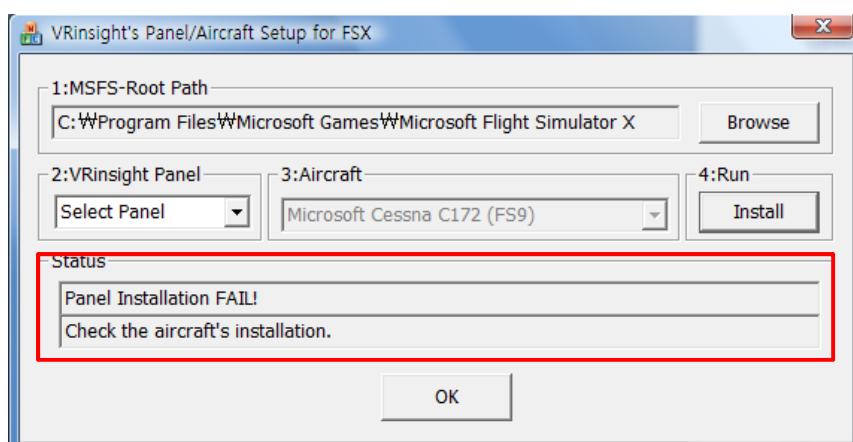


- 1. MSFS-Root Path :** Browse the path where “Flight Simulator 9” or “Microsoft Flight Simulator X” is installed.

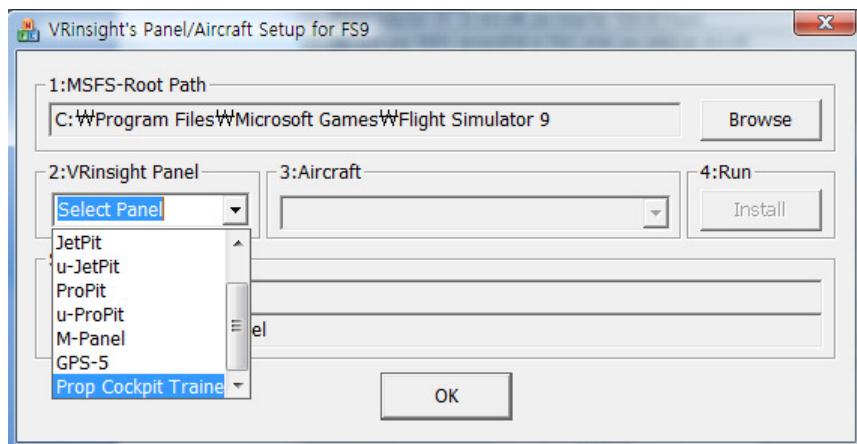
* If “Flight Simulator 9” or “Microsoft Flight Simulator X” is installed other “Drive” or “Directory”, find the path and click “OK”.



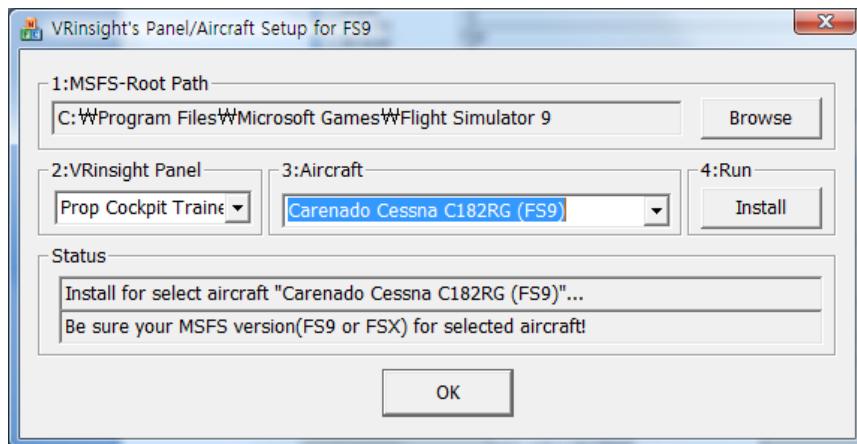
* if you select a wrong path, “Status” window displays error message.



2. VRinsight panel : Drop down and select your panel.

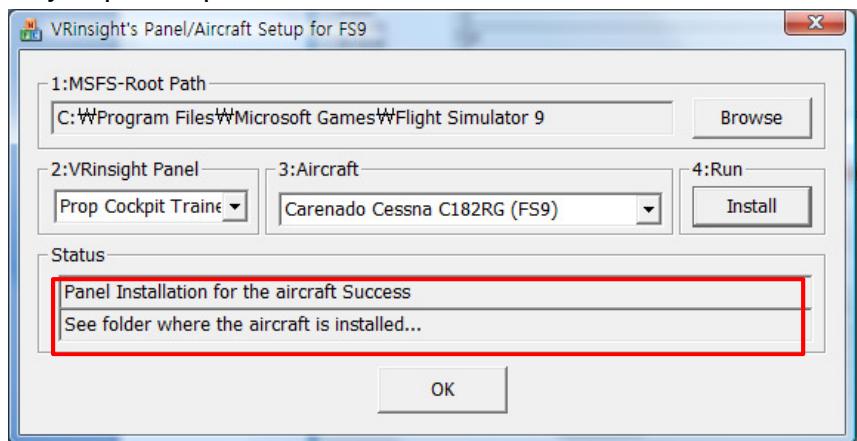


3. Aircraft : Drop down and select your aircraft.



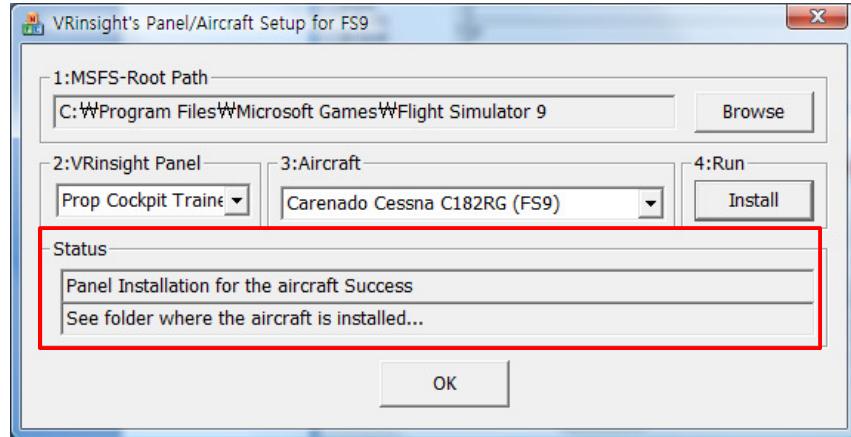
4. Run : Copy & paste all necessary panel data to work ***Prop Cockpit Trainer*** automatically.

* If you select an aircraft for FS9 and the “MSFS-Root Path” is for FSX, “Status” window displays error message and all necessary panel date will not be automatically copied & pasted. And vice versa.



5. Status : Inform current status.

* If everything is done properly, you will get below message



Preparing *Prop Cockpit Trainer* before Flight

Step 1 : Initial check up

Before flight with *Prop Cockpit Trainer*, please check the followings are done

- A. Install of SerialFP2.
 - * Check that "Install USB-Serial Driver" is checked or not.
- B. Confirm that proper version of FSUIPC is installed or not
(FSUIPC v3.80 or later for FS9 / FSUIPC v4.26 or later for FSX)
- C. Confirm the USB connection.
 - * Check that the USB port of your computer is dead or not
 - * Check that if you use USB hub, be sure that the USB hub is USB 2.0 compliant.
- D. Confirm power.
- E. Confirm the DVI or VGA connection.
- F. Confirm the monitor setting. (See page no. 10)
- G. Confirm that "Panel Installer" is executed or not.

Step 2 : Run flight simulator (MSFS9 / MSFSX)

A. Run flight simulator (MSFS9 / MSFSX).

B. Select Aircraft



Initial screen of MSFS will be shown like pic 1. Then undock it.



Pic 1

Step 3. Run Prop Cockpit Trainer. Then Prop Cockpit Trainer will automatically detect three parts : Switch panel, Gauge panel & Radio Stack. Select your aircraft and click “Load FS Module”.



Step 4. Confirm all gauges are move to *Prop Cockpit Trainer* like pic 3.



Pic 3

Step 5. If all gauges are still in MSFS9 / MSFSX window like pic 4, it means



Pic 4

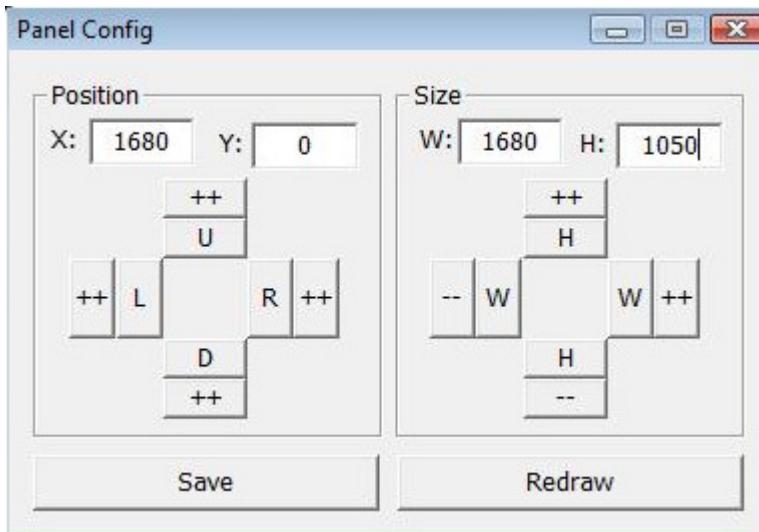
that you have to re-position the gauges display.

You can re-position the gauges display by “Panel Config” window. Find the minimized “Panel Config” window at the bottom of your monitor like pic 5.



Pic 5

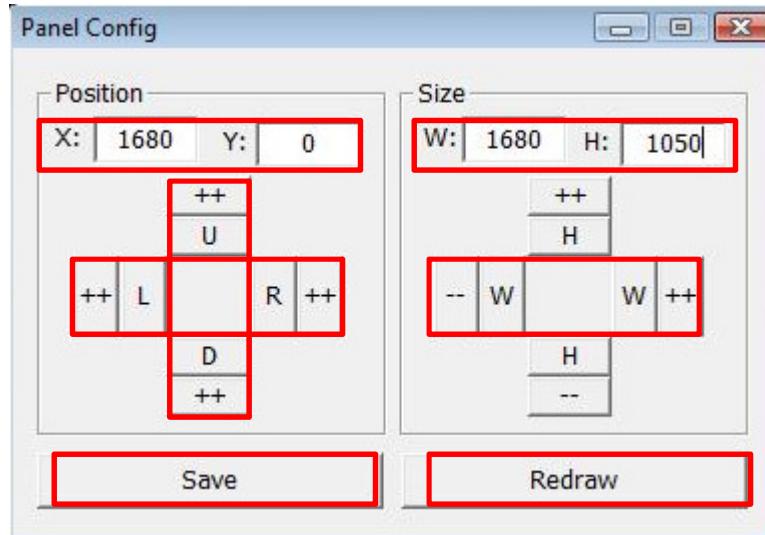
Step 7. Input the X & Y position of sub monitor for ***Prop Cockpit Trainer*** and press “Redraw”.



* For instance,
If X & Y position is
same as page 8,
Put X=1680, Y=0.

If X & Y size is same as
page 9, Put W=1680,
Y=1050.

Step 8. Confirm the gauges display has been move to **Prop Cockpit Trainer**. Then press “Save” for future purpose. With “Panel Config” window, you can adjust position and size of the gauges display. See how to control them.



X, Y	Current position of gauges display window
++ U	Moves gauges display window to up
++ D	Moves gauges display window to down
++ L	Moves gauges display window to left
++ R	Moves gauges display window to right
W, H	Current size of gauges display window
++ H	Expands in up & lower gauges shape
-- H	Reduces in up & lower gauges shape
++ W	Expands in left & right gauges shape
-- W	Reduces in left & right gauges shape
Redraw	Execute current settings
Save	Save all settings.